We claim:

1. A device for conditioning the interconnect surfaces of a support structure, the support structure being configured to receive thereon an integrated circuit chip having bond pads which are to be connected to the interconnect surfaces, the device comprising:

a first member; and

a raised feature on a surface of the first member, the raised feature being of a pre-determined shape and location as to engage with the interconnect surfaces of the support structure when the member and the support structure are brought into contact with one another.

- 2. The device of claim 1 comprising a second member which second member supports the support structure when the first member and the support structure are brought into contact with one another.
- 3. The device of claim 1 further comprising a heating element which heating element heats at least one surface of one of the first and second members that contact the support structure.
- 4. The device of claim 1 wherein the raised feature is a single continuous feature.
- 5. The device of claim 1 wherein the raised feature comprises a plurality of features of substantially uniform height, which plurality of features collectively engage with the interconnect surfaces of the support structure.

- 6. The device of claim 1 wherein said second member comprises a raised feature on a surface, the raised feature being of a substantially similar shape as said raised feature on the surface of the first member.
- 7. The device of claim 1 further comprising a cavity within said surface of the first member, the cavity being aligned with the location of an integrated circuit chip located on the support structure.
- 8. The device of claim 1 further comprising a clamp mechanism to forcibly engage the first member with the support structure.
- 9. The device of claim 1 wherein said support structure is a lead frame.
- 10. The device of claim 1 wherein said support structure comprises a substrate having formed thereon a conductive trace.
- 11. A method of conditioning interconnect surfaces of a support structure comprising:

forming interconnect surfaces on the support structure;

positioning said support structure board in alignment with a personality kit such that the interconnect surfaces are substantially aligned with raised bosses on said personality kit;

clamping said personality kit onto said support structure such that the raised bosses forcibly engage with and deform each interconnect surface on said support structure substantially simultaneously; and

de-clamping said personality kit from said support structure.

- 12. The method of claim 11 further comprising heating said personality kit.
- 13. The method of claim 11 further comprising vibrating said personality kit or said support structure during said clamping step.
- 14. The method of claim 11 wherein said positioning step comprises aligning said support structure in at least two axes.
- 15. The method of claim 11 further comprising bonding a bond wire to at least one of said interconnect surfaces after said de-clamping step.
- 16. The method of claim 11 wherein said clamping step comprises moving said personality kit, or said support structure, or both, relative one another in a direction normal to the major surface until said personality kit and said support structure are forcibly engaged.

17. A wirebonder adapted to wire bond an integrated circuit chip to a substrate, the substrate having formed thereon a plurality of conductive traces, at least one of the conductive traces having a bond region containing a bond surface, the machine comprising:

a support structure positioning device;

a conditioning device positioned adjacent the support structure positioning device, the conditioning device and the support structure being movable relative to one another in a direction normal to the support structure, the conditioning device comprising:

a member;

a raised boss on the member, the raised boss being configured to compress bond surfaces on a top surface of the support structure when the conditioning device is engaged with the support structure;

a cavity located so as to receive therein an integrated circuit chip mounted on said support structure when the flexible member is engaged with the support structure; and

a bond wire capillary positioned over the circuit board clamp.

- 18. The machine of claim 17 further comprising a heater connected to the conditioning device.
- 19. The machine of claim 17 further comprising a vibrator connected to the conditioning device.
- 20. The machine of claim 17 further comprising a servo motor attached to the conditioning device, the servo motor moving the conditioning device relative the support structure positioning device.